Specifications

FOX T UWP 302

NOTE: The FOX T UWP 302 is not compatible with the FOX 3G HD-SDI, FOX 3G DVC, or FOX AV models.

NOTE: These units are class 1 laser products. They meet the safety regulations of IEC-60825.

NOTE: *Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.

Optical fiber interconnection between transmitter and receiver

Number/type..... 1 or 2 fiber optic
Connectors..... 2 LC connectors
Operating distance
- Singlemode..... 30 km (18.75 miles) with singlemode (SM) cables with a SM unit
- Multimode..... 300 m (984') with 62.5 µm OM1 multimode (MM) cables with a MM unit
  1 km (3280') with 50 µm OM2 multimode (MM) cables with a MM unit
  2 km (6561') with 50 µm OM3/OM4 2000 MHz bandwidth laser optimized multimode cable with a MM unit

NOTE: Operating distance is approximate. These are typical maximum distances that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Nominal peak wavelength..... 850 nm for MM units, 1310 nm for SM units
Data rate..... 4.25 Gbps
Maximum pixel clock..... 165 MHz
Transmission power
- Singlemode..... -5 dBm, typical
- Multimode..... -5 dBm, typical

Maximum receiver sensitivity
- Singlemode..... -18 dBm, typical
- Multimode..... -12 dBm, typical

Optical loss budget
- Singlemode..... 13 dB, maximum
- Multimode..... 7 dB, maximum

Video

Digital
- Resolution range..... 640x480 up to 1920x1200, 480p, 576p, 720p, 1080i, 1080p @ 60 Hz sampled pixel for pixel; higher resolution 2K (2048x1080) @ 60 Hz undersampled
- Resolution range..... 640x480 to 1920x1200*, 480p, 576p, 720p, 1080i, 1080p sampled pixel for pixel
- Formats..... RGB and YCbCr digital video
- Standards..... DVI 1.0, HDMI compliant, HDCP 1.1, CEA-861E

Analog
- Maximum resolution..... Up to 1920x1200 or 1080p @ 60 Hz pixel for pixel
- Signal type..... VGA-UXGA RGBHV, RGBS, component video
- Gain..... Unity
- Pixel data bit depth..... 8 bits per channel, 3 channels (R, G, B; or YUV)

Video input

Digital

Number/signal type	1 single link HDMI (HDCP compliant)
Connectors	1 female 19-pin HDMI Type A
Equalization	Up to 50' of cable

Analog

Number/signal type	1 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs, component video (YUVp/HDTV)
Connectors	1 female 15-pin HD
Nominal level	1 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels	Analog: 0.3 V to 0.75 Vp-p with no offset, terminated
Impedance	75 ohms
Horizontal frequency	30 kHz to 100 kHz
Vertical frequency	24 Hz to 120 Hz
Return loss	<-40 dB @ 5 MHz

Sync

Input type	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level component video (480p, 576p, 720p, 1080i, 1080p)
Input level	2.5 V to 5.0 Vp-p for RGBHV or RGBS 0.6 Vp-p for component video with tri-level sync 0.3 Vp-p for component video with bi-level sync
Input impedance	510 ohms
Polarity	Positive or negative (follows input or can be set by user)

Audio

Gain

Range	Adjustable, -18 dB to +10 dB
Default	Unbalanced output: -6 dB
Frequency response	20 Hz to 20 kHz ±0.5 dB
THD + Noise	0.10% @ 1 kHz at nominal level
S/N	>80 dB at maximum output (unweighted)
Audio bits per sample	18 bits per channel, 2 channels (L, R)
Sampling rate	48 kHz

Audio input

Number/signal type	1 unbalanced stereo
Connectors	(1) 3.5 mm mini stereo jack
Impedance	>10k ohms unbalanced
Nominal level	-10 dBV (316 mVrms)
Maximum level	+7 dBV unbalanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Communications

Serial control port

Control	1 RS-232, 3.5 mm captive screw connector, 5 pole (3 pins are used, "Remote RS-232", shared with alarm port), side panel
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configuration	1 = Tx, 2 = Rx, 3 = GND
USB control port	1 front panel female mini USB B
USB standards	USB 2.0, low speed

General

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
Device	6.1 watts, 12 VDC
Device and power supply	7.7 watts, 100-240 VAC, 50-60 Hz
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +104 °F (0 to +40 °C) / 10% to 90%, noncondensing
Cooling	Convection, vents on the rear and sides
Thermal dissipation	
Device	20.6 BTU/hr
Device and power supply	26.2 BTU/hr
Mounting	
Furniture or wall mount	Yes, with standard Decora®-style wall plate
Enclosure type	Metal
Enclosure dimensions	
Faceplates	Three [2.6" H* x 1.3" W x 0.3" D (6.6 cm H* x 3.3 cm W x 0.6 cm D)] (Depth excludes connectors. Fits the openings in a 3 gang Decora®-style wallplate.) *Overall height is 4.1" (10.4 cm) including mounting tabs.
Device	4.1" H x 5.36" W x 2.21" D (3-gang wide)
Product weight	0.7 lbs (0.3 kg) per unit
Shipping weight	3 lbs (2 kg) per unit
Vibration	ISTA (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI Class A
Environmental	Complies with the appropriate requirements of RoHS, WEEE
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

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